

This listing of claims replaces all prior versions and listings of claims in the application.

In the Claims:

1-13. (cancelled)

14. (currently amended) A method of receiving data from a data-carrying signal transmitted by a transmitter, comprising:

using an automatic gain controlled amplifier at the receiver to amplify the data-carrying signal to a predetermined level, the automatic gain controlled amplifier including a variable gain amplifier and a peaking amplifier, such that in a first mode, the variable gain amplifier amplifies the data-carrying signal to a predetermined level and the peaking amplifier amplifies substantially without peaking, and in a second mode, the variable gain amplifier amplifies with fixed gain and the peaking amplifier amplifies with peaking;

receiving values of data bits from the data-carrying signal with equalization at the receiver;

generating first information for adjusting an amount of the equalization performed at the receiver;

generating second information for adjusting an amount of pre-distortion applied to the data-carrying signal by the transmitter; and

transmitting the second information to the transmitter.

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15. (original) The method as claimed in claim 14, wherein the second information includes information for adjusting a characteristic of a feed forward equalizer (FFE) of the transmitter.

16. (original) The method as claimed in claim 15, wherein the information for adjusting a characteristic of the FFE includes information for adjusting tap coefficients of the FFE.

17. (original) The method as claimed in claim 14, further comprising compensating a direct current (DC) voltage offset of the data-carrying signal at the data receiver.

18. (original) The method as claimed in claim 17, further comprising controlling an amount of the DC voltage offset compensation as a result of the equalization performed at the receiver.

19-20. (cancelled)

21. (currently amended) The method as claimed in claim ~~20~~ 14, further comprising adjusting the gain of the variable gain amplifier automatically as a result of receiving the data with equalization.